

Dehumidifier Flexisorb

# ECONOSORB / FRIGOSORB



*Dehumidifying capacity at 20°C / 60%RH*

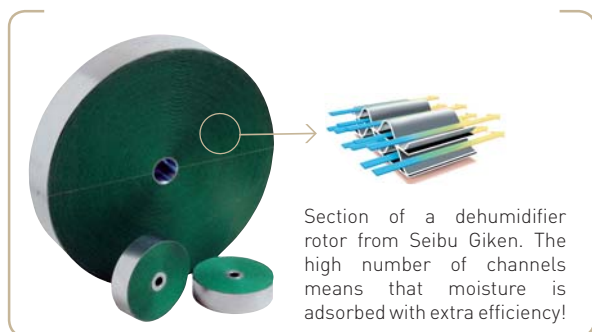
**10 - 148 kg/h**

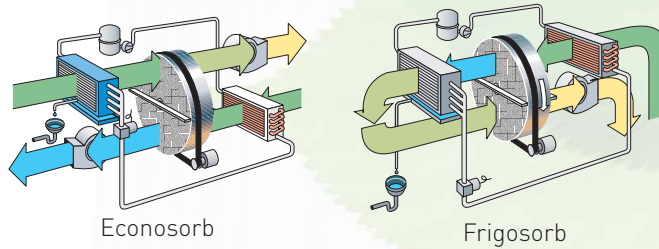
*Dry air flow*

**1400 - 33700 m<sup>3</sup>/h**

- Flexible design
- Customised
- Washable rotor
- Low energy costs
- Optimised control
- Pull-out rotor unit

**Flexisorb:** One unit many solutions. The Flexisorb system allows every dehumidifier to be adapted to suit your own specific requirements.





**Econosorb - The most energy efficient dehumidifier. Low dry air temperature.**

Unit	Process air flow	Capacity *	Delta-x **	Compr. power	Total power
EF-081E	1 400 m3/h	10,7 kg/h	8,3 g/kg	3,5 kW	4,1 kW
EF-101E	2 400 m3/h	17,4 kg/h	7,9 g/kg	4,5 kW	6,0 kW
EF-102E	4 000 m3/h	30,0 kg/h	8,1 g/kg	7,8 kW	10,3 kW
EF-122E	6 400 m3/h	47,0 kg/h	8,0 g/kg	13,3 kW	17,7 kW
EF-152E	9 000 m3/h	65,0 kg/h	7,8 g/kg	18,4 kW	24,5 kW
EF-172E	10 500 m3/h	78,0 kg/h	8,0 g/kg	23,4 kW	28,9 kW
EF-192E	12 000 m3/h	93,0 kg/h	8,4 g/kg	27,9 kW	34,5 kW
EF-222E	15 000 m3/h	115,0 kg/h	8,3 g/kg	36,8 kW	46,2 kW
EF-242E	18 700 m3/h	148,0 kg/h	8,6 g/kg	47,4 kW	59,5 kW
EF-081T	1 300 m3/h	10,5 kg/h	13,5 g/kg	4,3 kW	4,9 kW
EF-101T	2 500 m3/h	18,5 kg/h	12,3 g/kg	7,4 kW	8,6 kW
EF-102T	2 900 m3/h	22,0 kg/h	12,6 g/kg	8,8 kW	10,2 kW
EF-122T	3 400 m3/h	28,0 kg/h	13,7 g/kg	11,2 kW	13,0 kW
EF-152T	6 000 m3/h	49,0 kg/h	13,6 g/kg	17,5 kW	21,6 kW
EF-172T	7 600 m3/h	62,0 kg/h	13,6 g/kg	23,9 kW	29,6 kW
EF-192T	11 500 m3/h	96,0 kg/h	13,9 g/kg	37,0 kW	45,8 kW

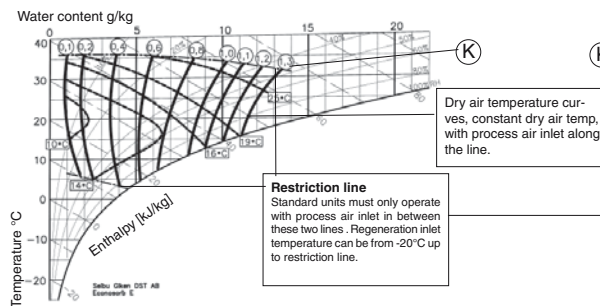
E - for European climate. T - for tropical climate  
 Wet air flow controlled to have constant condenser pressure in the heat-pump, lowest (winter) is half of process air, highest (summer) is double the process air on E-versions, 3 times on Tropical version  
 \* at 20°C/60%RH for both process air and regeneration air, for other climates please refer to correction diagram  
 \*\* at 30°C/14g/kg for E versions, at 33°C/22 g/kg for T versions

**Frigosorb - Energy efficient dehumidifier with no need to extract wet air, only condensation**

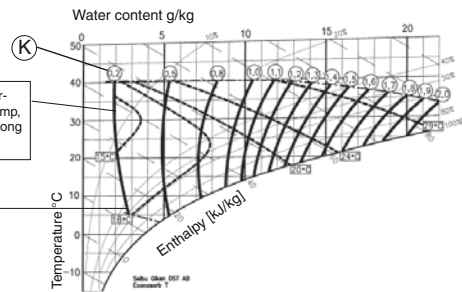
Unit	Air flow	Capacity *	Compressor power	Total power
FF-81	3 700 m3/h	10,2 kg/h	4,2 kW	5,7 kW
FF-101	5 200 m3/h	14,4 kg/h	5,9 kW	8,0 kW
FF-102	7 400 m3/h	17,0 kg/h	7,0 kW	9,5 kW
FF-122	12 000 m3/h	28,0 kg/h	9,5 kW	14,4 kW
FF-152	20 900 m3/h	50,0 kg/h	21,0 kW	32,9 kW
FF-172	26 600 m3/h	63,0 kg/h	26,5 kW	41,5 kW
FF-192	33 700 m3/h	80,0 kg/h	33,6 kW	52,6 kW

\* at 20°C / 60%RH, for other climates please refer to correction diagram

**Correction diagram for Econosorb European climate (E)**

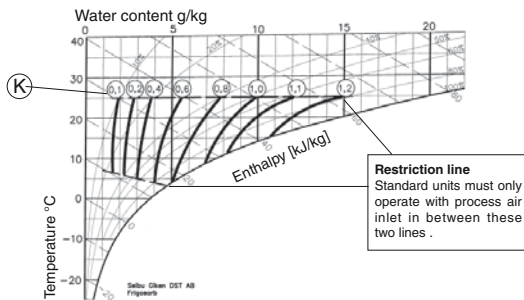


**Correction diagram for Econosorb Tropical climate (T)**



The dehumidifying capacity is estimated as the nominal capacity from the table (on the reverse side of this document), multiplied by the factor (K) from the correction diagram. The dry air temperature for Econosorb is calculated from the above diagrams.

**Correction diagram for Frigosorb**



The dehumidifying capacity is estimated as the nominal capacity from the table (on the reverse side of this document), multiplied by the factor (K) from the correction diagram. For inlet conditions of 20°C/60%RH, the data given is correct for all models. For all other inlet conditions, the correction factor can vary ±10% for different size units.

The dry air temperature for Frigosorb is calculated with help from the below formula and with the K-factor from the diagram for Frigosorb.

$$t_{out} = t_{in} + (K * 4) + 6$$

Subject to change without notice. Download installation drawing at [www.dst-sg.com](http://www.dst-sg.com)